

U. S. DEPARTMENT OF AGRICULTURE.

FORM 15.

FIELD DIARY
AND
TRAVEL RECORD.

Mr. E. A. Goldman

(Official title.)

Period, Oct. 13. to Nov. 28, 1922

Arizona-California
NOTICE.
(Trip in Arizona strip.)

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8-3681

INSTRUCTIONS.

Every officer or other employee of the Department of Agriculture conducting work while traveling will, so far as practicable, keep a diary in which will be recorded, under an appropriate date entry, a concise statement of all important matters pertaining to such work and also of any general matters that may be of interest to the Department.

This diary will be retained by the official preparing same, but will be subject to call by the administrative officers of the Department at any time.

When this book is filled another may be secured by application to the Chief of your Bureau.

Yermy Wallace

Secretary of Agriculture.

8-3681

DATE		STATIONS		COUPON NOS.		PULL		SCRIP VALUE	
		From	To	From	To			Dolls.	Cts.
125281									
Moapa to G.C.									
Verlino, Lebo. P. - Tucson		From							
Gofffield, Tenn. -									
Two in organ. house									
Ditch at Univ. 1 mile									
out.									
Stop at Levee Hotel, near									
station - Tucson.									
Taylor - wire to to meet me									
at train at Del Mar. Sta. P.R.R.									
Bibby Dickey, Donald R.									
Pasadena - take Sta. RR to Pasadena									
From S.P. Depot, L.A.									
From L.A. take 9.05 train									
if convenient									
The Distribution of Vegetation									
in the U.S. as relating to									
Climatic Conditions - #									
Burlon E. Livingston									
For not share									

MEMO. OF COUPONS DETACHED FROM

FORM

8-3681

[illegible]

Oct. 13, 1922 - Mt. T^{ariz}ogan
Left camp 6 mi N. of Mt. Trumbull
about noon and travelled southwards
winding about over very rough
terrain and finally climbing
up to about 7000 ft. at the
saw mill on Mt. Togan where
we stopped for the night.
Cyanocceph. cyan. Flocks of
junco jays were seen in
various places along the
route today especially near
Mt. Trumbull which was passed
~~on~~ on the west side.

Route was southerly passing to the west of Mt. Turnbull. Camp at sawmill well up in yellow pine, with pinyons and junipers appearing a short distance below. Camp was made shortly before dark.

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

8-3681

Oct. 14. Mt. Logan to
Diamond Butte.

Left camp at 8 A.M. and travelled southward several miles to the west of Mt. Logan (locally called Lookout Mountains) and then followed the exceedingly rough lumber road down Hurricane Ridge which at this point becomes simply a very steep slope there being no real ledge of great height as begins a short distance to the north. In many places we were obliged to fill the ruts with rocks to ride over high centers. From the foot of the hill we turned north over a ^{level} plain largely overgrown with a scanty growth of atriplex and camped

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous: -----			

Oct. 14 con.

For the night when abreast of and about 2 miles west of Diamond Butte. A large number of traps were set along limestone ledges and about atriplex bushes.

Neotoma disortum. Specimens taken yesterday on Hurricane Ridge were trapped about limestone which alternates or are sometimes overlaid by lava. They were exceedingly dark brown and probably represent a dark race inhabiting this section which is of old lava as shown by erosion and vegetation.

~~Oct~~

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 15, Diamond Butte to 6 mi. N. of Wolf Hole.

Left Diamond Butte about 1 P.M. and travelled north to Wolf Hole where some time was lost in making inquiries, and from that point continued on by main road to a point on the Virgin Valley slope just before beginning the steep descent where we camped at about 3500.

Road continued over ~~atypical~~ plain through limestone-lava country to Wolf Hole then crossed a ridge and descended steeply through a break and wash to camp ~~well down~~ in the L.S. zone just above upper

ITEMS		PLACE	Dolls.	Cts.
Breakfast	Tip			
Dinner	Tip			
Supper	Tip			
Lodging,	to			
Laundry				
Porter	Sleeper			
	Parlor car			
Depot porter	Arrival			
	Departure			
Hotel porter	Arrival			
	Departure			
Checking baggage	pcs.			
Baggage transfer	pcs.			
From	to			
Street car fare				
From	to			
Miscellaneous:				

Oct. 15

limit of lowville.

Dipod. microps. Abundant about "plateau" and along bushes near our camp. Burrows in low mounds with many entrances measuring up to 3 inches in diameter in loose chalky soil of light color.

Oct. 16 - St. George.

Left camp at 3000 ft. on Ariz. side and crossed Virgin River to St. George.

Oct. 17 - St. George to Littlefield. Left St. G. at 10 a.m. and travelled 37 mi. to Littlefield where we camped on Beaver dam Cr. and hops were set in loose drifting sand which covers a considerable

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 17 con.

Sub interrupted area the country round big of gravelly on strong levelled plains character on both sides of the valley.

The Virgin River merges from a box canyon a short distance above ~~the~~ G. Littlefield.

A large number of traps were set mainly in sand.

Oct. 18. Littlefield to

~~the~~ Virgin River 8 miles below.

In afternoon ran on down to My guide New. 11 mi. and turned back and camped on Virgin Riv. about 3 miles above Arranged to cross river for trip to Virgin Mts. tomorrow.

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 19. Virgin Mts. Ariz.
Left river after crossing with
help of team and climbed
steep plain to base of Virgin
Mts. entering Elbow Canyon to 3000 ft.

Thomomys. Abundant in
alfalfa fields at Littlefield and
along river above Maggpie.
New.

Magpie - Two at camp base
of Virgin Mts.

Travel in large numbers at spring.
Red-tail

Prosopis juliflora

Acacia greggii

Echinocactus

Artemisia

In afternoon climbed up to about
5000 ft. in upper Sonoran zone and
set traps.

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 19 con.

Loph. gambeli. - Hundreds of quail calling to each other and crowding about the water at the lower spring in Elbow Canyon where the country is L.S. zone. Not seen about the water at several springs not far above which are in U.S. zone (Gunnison and Gunnison country). One was seen in the claws of a Cooper hawk which flew close past me in the narrow canyon.

Accipiter cooperi. Several seen at about 3000 ft. in Elbow Canyon where they are ~~seen~~ probably killing a good many quail (Loph. gambeli) which are abundant at that point. One carrying a quail which had apparently just been caught flew past

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter ----- { Sleeper -----			
{ Parlor car -----			
Depot porter ----- { Arrival -----			
{ Departure -----			
Hotel porter ----- { Arrival -----			
{ Departure -----			
Checking baggage ----- pes.			
Baggage transfer ----- pes.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 19 con.

me along the narrow bottom
of the canyon on rocks
Eutamias dorsalis. One seen
among pines and junipers at
about 4500 ft. along Elbow
Canyon.

Oct. 20 - Virgin mts. &
camp ~~also~~ on Virgin River about
3 miles above Mesquite.

Pack up traps and descended
basal slope of mts. to ranch.
Dist. travelled about 7 miles.

Perom. erin. One caught among
oaks on ~~northeast~~ ^{Elbow} northerly slope
where opposite side bore L.S.
vegetation.

Buteo B. calurus. One seen
near camp at 3000 ft.

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 20, con.

Aphelocoma woodhousei -
Common.

Self. obs. Several seen.

Hath. su. contp. Heard near
camp.Pipilo m. mac. - One seen at
wet place in L.S. zone at
4500 ft.

Fallogia parodius. L.S. zone

Artemisia trid. - common in
U.S. zone.Dipod deserti. Burrows along
east side of Virgin River off.
ranch 3 miles above Mizzito, Nev.Pinus ponder. A few on top of
Mts. above about 7000 ft.Oct. 21. Near Mizzito,
Nev. to ~~the~~ camp near Mud
Springs.

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 21 con.

Left camp near Muzjita and drove to St. Thomas - 38 miles and learning that it would be practically impossible to get to Gregg's Ferry turned nearly east ^{at a right angle} to vicinity of Mud Spring where we camped and traps were set. Am uncertain whether this place is in Nev. or Ariz.

Route today over Lower Sonoran desert, rising over basal slope of the southern group of the Virgin Mts.

Oct. 22 - Grand Wash, Ariz. - continued ^{about} 10 miles today, crossing the broad summit between the Virgin Valley and the Grand Wash drainage

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 22,

at about 3500 ft. altitude a short distance east of our camp. From this summit good views were obtained of the Grand Wash cliffs which extend for many miles and are broken in places into several terraces rising one above the other. What I took to be Mt. Dellmough stands ~~as~~ prominently ~~with~~ as an elevated portion of the Plateau Shinarump Plateau near its southern end. We ran down the rather gradual slope into the bottom of the Wash where several old roads and as continue up portions of the Wash, camp was made just below where

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter { Sleeper			
{ Parlor car			
Depot porter { Arrival			
{ Departure			
Hotel porter { Arrival			
{ Departure			
Checking baggage pcs.			
Baggage transfer pcs.			
From to			
Street car fare—			
From to			
Miscellaneous:			
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Oct. 22. con

a western fork known as Black Wash enters the main wash.

Grand Wash is really a broad wash in the bottom of a valley 6 to 10 miles wide bordered on the east by the Grand Wash bluffs. Most of the valley bottom is a limestone loess covered plain. In places the limestone is thickly overlaid with broken lava and lava ledges appear in a few places, especially along Black Wash. Several springs of good water occur along the eastern side of this portion of Grand Wash, with ~~a few~~ an occasional willow, ~~sage~~ sage and patches of arrowweed

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter { Sleeper			
{ Parlor car			
Depot porter { Arrival			
{ Departure			
Hotel porter { Arrival			
{ Departure			
Checking baggage pcs.			
Baggage transfer pcs.			
From to			
Street car fare—			
From to			
Miscellaneous:			
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Oct. 22 con.

about them. The bottom of the wash is of loose sand in places, but for the most part is hard and stony.

veg. The general area is covered with a ~~the~~ usual growth of *Leovillea* with ^{a few} *mizquite* and *lehilopis* along the washes.

Two species of *Yucca*, one a tree species, occur prominently on some slopes. Two species of *Echinocactus* sometimes occur together. The larger ^{tree} *Yucca* is locally known as "Joshua".

Oct. 23. Grand Wash.

A good catch of small mammals was made last night. Today moved camp about two miles

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter Sleeper			
..... Parlor car			
Depot porter Arrival			
..... Departure			
Hotel porter Arrival			
..... Departure			
Checking baggage pes.			
Baggage transfer pes.			
From to			
Street car fare—			
From to			
Miscellaneous:			
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Oct. 23 con.

up wash to a point assumed to be about 6 mi. S. of Pakoon Spg. where some pocket zoophores were located in a patch of arrowweed near a spring on the east side of the wash.

Diplo. deserti. Abundant in loose in bottom and on slopes of Grand Wash.

Diplo. merriami. Generally distributed.

Maggie - Two seen.

Larvae - Several

larvae seen. ..

Oct. 24 - Grand Wash to Moapa. Back to St. P. and then to Moapa. Took train direct 8.49 for Maricopa

....., 19.....

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ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 25 -

Arrived Maricopa 4:25 A.M.
Left 2 P.M. for Williams

Oct. 26

Arrived Williams 4:35 A.M.
Left for Grand Canyon 8:15
A.M. train late - should have
left 5:40 A.M. Arrived Grand C. 10 A.M.
Found Dr. W.P. Taylor awaiting
me at Grand Canyon and in
afternoon a trip was made to
rodent grazing areas on Lees Ferry
Wash.

Grazing areas. Found to be in
very satisfactory condition.
These areas consist of two
plots of about $\frac{3}{4}$ A. each plus
total exclusion area, and also
several a fence to include a

....., 19.....

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter { Sleeper			
{ Parlor car			
Depot porter { Arrival			
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Hotel porter { Arrival			
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Checking baggage pcs.			
Baggage transfer pcs.			
From to			
Street car fare—			
From to			
Miscellaneous:			
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Oct. 26 con.

supposedly typical number of prairie dogs. Marked differences are shown in the two, but the rodent grazed area shows rather scant damage as though the number of dogs present was below the average. Returned to Williams in evening leaving at 7:25 and arriving about 10 P.M.

Oct. 27.

Made trip ^{from} at Williams in morning with Forest Supervisor Mr. Kimball to grazing areas about 4 mi. N. of center.

Grazing areas. One of these is total exclusion area and the other fenced against stock

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter { Sleeper			
{ Parlor car			
Depot porter { Arrival			
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Hotel porter { Arrival			
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Checking baggage pcs.			
Baggage transfer pcs.			
From to			
Street car fare—			
From to			
Miscellaneous:			
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Oct. 27 con:

But freely accessible to prairie dogs. Here a remarkable difference is noticeable. It was particularly noted that the dogs appear to take nearly all the seeding heads of grasses. Left in evening, about 10 o'clock and reached Flagstaff about 11 P.M.

Oct. 28 - Flagstaff.

Made a trip out to Fort Valley Experiment Station where we met Mr. G. A. Pearson who is in charge and who has been carrying on studies of various kinds at that point since 1908. One of the important parts of his work has been

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Oct. 28 con.

the study of factors limiting the distribution of forest types. Much of his work has been on the yellow pine, but other trees of the region have been studied, and temperature taken, both surface and underground, at various stations up to near the limit of tree growth on the mountain. Mr. Pearson was very courteous and friendly most of the day was spent with him and Mr. Woodbury and Mr. Price of the S.F. office of D.S. who also visited the station on their way to a meeting of forest officers to discuss matters relating to forest management at Coaling. Mrs.

....., 19.....

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter { Sleeper			
{ Parlor car			
Depot porter { Arrival			
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Hotel porter { Arrival			
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Checking baggage - pcs.			
Baggage transfer - pcs.			
From to			
Street car fare—			
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Miscellaneous:			
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Oct. 28

Pearson offered himself as being agreeable to having us take up work at that station and believed he could furnish a house.

Remained overnight at Flagstaff.
A heavy snow-storm in progress

Oct. 29 - Seligman.

Trains delayed, but we finally left Flagstaff about 12 m. and arrived at Seligman about 3 P.M.

ITEMS		PLACE	Dolls.	Cts.
Breakfast	Tip			
Dinner	Tip			
Supper	Tip			
Lodging,	to			
Laundry				
Porter	Sleeper			
	Parlor car			
Depot porter	Arrival			
	Departure			
Hotel porter	Arrival			
	Departure			
Checking baggage	pcs.			
Baggage transfer	pcs.			
From	to			
Street car fare—				
From	to			
Miscellaneous:				

Def. 30.

Made examination of grazing experimental plots about 10 miles south of Delegivan. Found that prairie dogs had been apparently killed off in that vicinity and this experiment is therefore of little value.

Left in evening for California on vacation.

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ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter { Sleeper			
	Parlor car		
Depot porter { Arrival			
	Departure		
Hotel porter { Arrival			
	Departure		
Checking baggage - pcs.			
Baggage transfer --- pcs.			
From to			
Street car fare—			
From to			
Miscellaneous:			
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Nov. 20, La Jolla, Calif.
 Resumed official duty at
 La Jolla 12.30 P.M.
 Was met at Delmar by W. P. Taylor
 who drove me in his car to
 La Jolla where inspection of
 station was made and consider-
 ation of various matters
 taken up with Taylor.

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter { Sleeper			
{ Parlor car			
Depot porter { Arrival			
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Hotel porter { Arrival			
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Checking baggage - pcs.			
Baggage transfer pcs.			
From to			
Street car fare—			
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Miscellaneous:			
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Nov. 21, La Jolla, Calif.
 Made trip to San Diego where
 conferred with A. W. Anthony,
 Frank Stephens and others and
 drove out into country in
 afternoon to note character,
 returning to La Jolla in
 evening.

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare—			
From ----- to -----			
Miscellaneous:			

Nov. 22, La Jolla to
El Centro and on ~~the~~
route to Phoenix, Ariz.

Left San Diego 10.15 A.M.
arrived El Centro 3.45 P.M. Left
El Centro 8.40 P.M. for Phoenix

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

No. 23. Phoenix

Arrived Phoenix about
~~9 A.M.~~ 8.40 A.M.

Rev. Gilchrist says mt.
are reported to occur in
numbers on Huachuca Ind.
Res. west of Diamond Lk.
Indian agent at Valentine
William Light - tipson and
telegraph address Hackberry -
mail address Valentine offered
to take ^{him} out to get a specimen.
He says mt. sheep in the
mountain ranges of S.W. Ariz. N. of
railroad - Muggins mts, Santa Dome
Mts, Chocolate Mts, Trigo mts,
Gila Park Mts. and in White
Tank Mts. west of Phoenix. Also
inajo mts. and other ranges of
that vicinity. Sheep are said

ITEMS	PLACE	Dolls.	Cts.
Breakfast Tip			
Dinner Tip			
Supper Tip			
Lodging, to			
Laundry			
Porter { Sleeper			
{ Parlor car			
Depot porter { Arrival			
{ Departure			
Hotel porter { Arrival			
{ Departure			
Checking baggage - pcs.			
Baggage transfer pcs.			
From to			
Street car fare—			
From to			
Miscellaneous:			
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Nov. 23 am

By Gilchrist to be regularly hunted in desert ranges by people from Gawa. the local game warden ~~to~~ apparently making little or no effort to check them.

white tail
 Deer. Gilchrist says deer are said to be becoming increasingly abundant on Apache Game Preserve, Deer are very abundant on Louis Maria Baca land Grant where no hunting is regularly allowed by those in charge. This area therefore seems as a game preserve from which deer can readily spread to other areas.

Silk. Gilchrist says road opened from Heber, Ariz. to Babous Butte along rim of

....., 19.....

ITEMS	PLACE	Dolls.	Cts.
Breakfast..... Tip.....			
Dinner..... Tip.....			
Supper..... Tip.....			
Lodging, to			
Laundry			
Porter..... { Sleeper			
	Parlor car		
Dcpot porter..... { Arrival			
	Departure		
Hotel porter..... { Arrival			
	Departure		
Checking baggage - pcs.			
Baggage transfer pcs.			
From to			
Street car fare—			
From to			
Miscellaneous:			

Nov. 23 con.

Tonto Basin where he saw many signs. Two years ago one wandered west to near Ash Fork and was seen frequently by many residents among whom was Dr. C. C. Barrett asst. state Entom. and Ab. Smith a present stockman located ^{10 miles} north of Ash Fork and was last seen on his range. Sept. 29/1922 ~~by~~ predating animal huts there. Miller reported only 32 elk and found elk calf killed by lion on upper Leonard Canyon. Two deer hunters reported to Miller that while hunting deer they found an elk near

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Dcpot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Nov. 23 am.

Promontory Town where he tried the lion but it jumped down and escaped in the rocks.

Grizzly - Look up skin & skull said to have been sent in to office. Shot near ~~at~~ ^{near} Perkinsville ~~between~~ ^{between} Williams south-west of Williams about 40 miles. This animal had been in range 19 years and Perkins estimates it killed \$25000 worth of live stock for him alone. A bounty of \$500 on its head stood for many years.

Deer - ~~Thore~~ ^{on west side of} white tails reported in ~~Thore~~ ^{Thore} Antelope. Gil. says they are being shot openly

ITEMS		PLACE	Dolls.	Cts.
Breakfast	Tip			
Dinner	Tip			
Supper	Tip			
Lodging,	to			
Laundry				
Porter	Sleeper			
	Parlor car			
Depot porter	Arrival			
	Departure			
Hotel porter	Arrival			
	Departure			
Checking baggage	pcs.			
Baggage transfer	pcs.			
From	to			
Street car fare—				
From	to			
Miscellaneous:				

Nov. 23 con.

By railcars on Audubon
Miss.

Left Phoenix 6.25 P.M. for
Tucson where I arrived at
10.45

Nov. 24 Tucson

Dr. Chas. T. Vorhies called for
me at Congress Hotel with
his car and with Loren
Gofffield we made a trip
to the Range Reserve where
quadrats have been established
and ^{rodent, grazing} experiments of various kinds
are in progress. Arranged with
Vorhies for him and Dr. Taylor
to take up study of life habits
of jack rabbits. ~~Vorhies~~
Jack rabbits—(white sided)
Lepus allini. Vorhies showed
me a place where these rabbits

ITEMS	PLACE	Dolls.	Cts.
Breakfast ----- Tip -----			
Dinner ----- Tip -----			
Supper ----- Tip -----			
Lodging, ----- to -----			
Laundry -----			
Porter -----	Sleeper -----		
	Parlor car -----		
Depot porter -----	Arrival -----		
	Departure -----		
Hotel porter -----	Arrival -----		
	Departure -----		
Checking baggage ----- pcs.			
Baggage transfer ----- pcs.			
From ----- to -----			
Street car fare -----			
From ----- to -----			
Miscellaneous:			

Nov. 24 con.

resort in considerable numbers and dig shallow pits in a bank as evidenced by marks of their feet and files scattered about. The soil was of a dark reddish color and apparently has some attraction for them.

Canis. Secured a skull trapped at N. end of sta. Rita Mts. which is of a ♀ of very small size.

Left Tucson at 11.59 P.M. for Washington after spending nearly entire evening with Gorm Gofffield whom I found a very congenial chap, much interested in the plotting of vegetation.

Nov. 25 - 28 en route
Wash. D.C. arriving at
1235 P.M. on latter date.

Joe Creek
% of plant life
Growth above
Upland, leafy

Go
St. Thomas to Bitter Spg. 8 mi.
B. to Mud Spg. - 10 mi.
Grand Wash 12 mi (McDowd
Ranch)

~~Back to northern 2 mi of
Mud Spg.~~

~~Here Spg. - 3 mi. (good
water)~~

~~N.W. to Gold Butte 4 mi.~~

Back to Mud & Bitter
Spg. and to Gold Butte.
Bitter to Gold Butte 16 mi.

S.W. Twin Spgs. - 12 mi.

from 5 to SR Durham

Oct. 7 - Oct. 26

17.01

26.18